

LIST OF ILLUSTRATIONS.

STREAMS AND LAKES OF WESTERN MONTANA AND NORTHWESTERN WYOMING.

	Page.
PLATE I.—Two-Ocean Pass	1
II.—(1) Capt. Jones's Map of Two-Ocean Pass. (2) Dr. Hayden's Map of Two-Ocean Pass. (3) Two-Ocean Pass, from sketch made by Prof. Evermann	24
III.—Horsethief Springs, Montana	37
IV.—Botteler Springs	39
V.—Davis Springs, near Bozeman	40
VI.—Shoshone Lake, north shore	60
VII.—Yellowstone Lake, Mount Sheridan	60
VIII.—Hayden Valley	60
IX.—Yellowstone River; Rapids above the Upper Falls	60
X.—Upper Falls of the Yellowstone River	60
XI.—Lower or Great Falls of the Yellowstone River	60
XII.—Grand Canyon of the Yellowstone, from the Brink	60
XIII.—Obsidian Cliff and Beaver Lake	60
XIV.—Virginia Cascade of Gibbon River	60
XV.—Gibbon Falls of Gibbon River	60
XVI.—Lower Falls of Firehole River	60
XVII.—(1) Keppler Cascade of Firehole River. (2) Rapids on Lewis Fork of Snake River	60
XVIII.—(1) <i>Catostomus discobolus</i> . (2) <i>Catostomus macrochilus</i> . (3) <i>Catostomus ardens</i>	60
XIX.—(1) <i>Rhinichthys dulcis</i> . (2) <i>Mylocheilus caurinus</i> . (3) <i>Ptychocheilus oregonensis</i>	60
XX.—(1) <i>Leuciscus hydrophilus</i> . (2) <i>Leuciscus gilli</i> . (3) <i>Leuciscus atrarius</i>	60
XXI.—(1) <i>Coregonus williamsoni</i> . Adult. (2) <i>Coregonus williamsoni</i> . Young. (3) <i>Coregonus williamsoni</i> . Head of breeding male	60
XXII.—(1) <i>Thymallus signifer</i> . Adult. (2) <i>Thymallus signifer</i> . Young. (3) <i>Cottus bairdi punctulatus</i>	60
XXIII.—(1) <i>Salmo trideus</i> . Adult male. (2) <i>Salmo irideus</i> . Young. (3) <i>Salmo fario</i>	60
XXIV.—(1) <i>Salmo mykiss</i> . Adult. (2) <i>Salmo mykiss</i> . Young. (3) <i>Salmo trutta levenensis</i>	60
XXV.—(1) <i>Salvelinus malma</i> . (2) <i>Salvelinus fontinalis</i> . (3) <i>Lota lota maculosa</i>	60
XXVI.—Map of Western Montana	60
XXVII.—Map of Yellowstone National Park	60

REPORT UPON INVESTIGATIONS MADE IN TEXAS IN 1891.

XXVIII.—Map of Eastern Texas	90
XXIX.—Dickinson Bayou, upstream from Nicholstone; Dickinson, Texas	90
XXX.—Trinity River near Magnolia Point, Texas	90
XXXI.—Fish Pond at San Pedro Spring, San Antonio, Texas	90
XXXII.—San Marcos River at the Mill, San Marcos, Texas	90
XXXIII.—San Marcos Spring, San Marcos, Texas	90
XXXIV.—San Marcos Spring, San Marcos, Texas	90
XXXV.—(1) <i>Hydropsis festivalis</i> maroonis. (2) <i>Fundulus pallidus</i> . (3) <i>Zygoneutes sinduoides</i>	90
XXXVI.—(1) <i>Zygoneutes pulvereus</i> . (2) <i>Zygoneutes jenkinsi</i>	90

AQUATIC INVERTEBRATE FAUNA OF WYOMING AND MONTANA.

XXXVII.—Figs. 1 to 4	258
XXXVIII.—Figs. 5 to 8	258
XXXIX.—Figs. 9 to 12	258
XL.—Figs. 13 to 17	258
XLI.—Figs. 18 to 22	258
XLII.—Figs. 23 to 28	258

FISHERIES OF THE SOUTH ATLANTIC STATES.

		Page.
PLATE	XLIII.—(1) <i>Acipenser sturio oxyrhynchus</i> . (2) <i>Lepisosteus platostomus</i> . (3) <i>Amia calva</i> . (4) <i>Tachysurus felleus</i> .	356
XLIV.—(1)	<i>Ailurichthys marinus</i> . (2) <i>Ictalurus punctatus</i> . (3) <i>Ameiurus platycephalus</i> .	356
XLV.—(1)	<i>Ameturus albidus</i> . (2) <i>Ameiurus nigricans</i> . (3) <i>Catostomus teres</i> .	356
XLVI.—(1)	<i>Erimyzon suetta</i> . (2) <i>Minytrema melanops</i> . (3) <i>Moxostoma rupiscartes</i> .	356
XLVII.—(1)	<i>Moxostoma papillosum</i> . (2) <i>Cyprinus carpio</i> . (3) <i>Cyprinus carpio orriaceus</i> .	356
XLVIII.—(1)	<i>Clupea mediocris</i> . (2) <i>Clupea pseudoharengus</i> . (3) <i>Clupea aestivalis</i> .	356
XLIX.—(1)	<i>Clupea rapidissima</i> . (2) <i>Brevortia tyrannus</i> . (3) <i>Dorosoma cepedianum</i> .	356
L.—(1)	<i>Lucius americanus</i> . (2) <i>Lucius reticulatus</i> . (3) <i>Elacatinus canadensis</i> .	356
LI.—(1)	<i>Mugil cephalus</i> . (2) <i>Mugil curema</i> . (3) <i>Scomberomorus maculatus</i> .	356
LII.—(1)	<i>Caranx hippos</i> . (2) <i>Caranx chrysos</i> . (3) <i>Seriola dumerili lalandi</i> .	356
LIII.—(1)	<i>Vomer setipinnis</i> . (2) <i>Selene vomer</i> .	356
LIV.—(1)	<i>Pomatomus saltatrix</i> . (2) <i>Trachynotus carolinus</i> . (3) <i>Trachynotus ovatus</i> .	356
LV.—(1)	<i>Trachynotus glaucus</i> . (2) <i>Stromateus triacanthus</i> .	356
LVI.—(1)	<i>Centrarchus macropterus</i> . (2) <i>Pomoxis spario</i> .	356
LVII.—(1)	<i>Ambloplites rupestris</i> . (2) <i>Okenobrytus gulosus</i> .	356
LVIII.—(1)	<i>Acantharchus pomotis</i> . (2) <i>Lepomis pallidus</i> .	356
LIX.—(1)	<i>Lepomis megalotis</i> . (2) <i>Lepomis auritus</i> .	356
LX.—(1)	<i>Lepomis punctatus</i> . (2) <i>Lepomis gibbosus</i> .	356
LXI.—(1)	<i>Micropterus salmoides</i> . (2) <i>Perca flavescens</i> . (3) <i>Epinephelus nigritus</i> .	356
LXII.—(1)	<i>Roccus lineatus</i> . (2) <i>Morone americana</i> . (3) <i>Centropristes philadelphicus</i> .	356
LXIII.—(1)	<i>Centropristes striatus</i> . (2) <i>Diplectrum formosum</i> . (3) <i>Tautoga onitis</i> .	356
LXIV.—(1)	<i>Lutjanus aya</i> . (2) <i>Orthopristis chrysopterus</i> .	356
LXV.—(1)	<i>Hæmulon plumieri</i> . (2) <i>Hæmulon rimator</i> .	356
LXVI.—(1)	<i>Archosargus probatocephalus</i> . (2) <i>Diplodus holbrookii</i> .	356
LXVII.—(1)	<i>Stenotomus chrysops</i> . (2) <i>Stenotomus aculeatus</i> .	356
LXVIII.—(1)	<i>Lagodon rhomboides</i> . (2) <i>Sparus pagrus</i> .	356
LXIX.—(1)	<i>Rhomboptiles aurorubens</i> . (2) <i>Lobotes surinamensis</i> . (3) <i>Sciaena ocellata</i> .	356
LXX.—(1)	<i>Pogonias cromis</i> . Adult. (2) <i>Pogonias cromis</i> . Young.	356
LXXI.—(1)	<i>Oynoscion regalis</i> . (2) <i>Cynoscion nebulosus</i> . (3) <i>Microgong undulatus</i> .	356
LXXII.—(1)	<i>Menticirrhus saxatilis</i> . (2) <i>Menticirrhus americanus</i> . (3) <i>Bairdiella chrysoura</i> .	356
LXXIII.—(1)	<i>Leiostomus xanthurus</i> . (2) <i>Paralichthys lethostigma</i> .	356
LXXIV.—(1)	<i>Phycis earlii</i> . (2) <i>Chatodipterus faber</i> .	356

EUROPEAN METHODS OF OYSTER CULTURE.

LXXXV.—(1)	Tarente, Italy. General view of Mare Piccolo, taken from the City. (2) Fusaro, Italy. A Fas-	406
cine withdrawn from the Lake to examine the Character of the set.		
LXXXVI.—(1)	Tarente, Italy. Preparation of Oyster Ropes for Elevage. (2) Tarente. Mussel-bearing Ropes.	406
LXXXVII.—(1)	Lucrine Lake, Italy. General view from the Highway to Naples, overlooking the eastern end	
of the Lake. (2) Lucrine Lake, Italy. Tidal Gate with stone Breakwater.		
LXXXVIII.—(1)	Fusaro, Italy. Elevage of Oysters of second year; a rearranged Faschine seen as lifted from the	406
water. (2) Husum, Germany. Government station and Oyster-storage Ponds.		
LXXXIX.—(1)	View of Establishment at Bergen-op-Zoom, Holland. (2) Boats receiving Cargo of Tiles.	406
LXXX.—(1)	Jerseke-Dam, Holland. A Collecting-ground at low tide. (2) Goes, Holland. A Collecting-	
ground at low tide.		
LXXXI.—(1)	Jerseke-Dam, Holland. Tidal Inclosures for Culture and for Water Storage of Tiles. (2)	406
Goes, Holland. A series of Tidal Inclosures (<i>parcs</i>) skirting the Dike.		
LXXXII.—(1)	Jerseke-Dam, Holland. A Cultural Inclosure of the better class, emptied for purpose of clean-	
ing. (2) Bergen-op-Zoom, Holland. View of a Rearing-pond.		
LXXXIII.—(1)	Bergen-op-Zoom, Holland. View from the dike across Polder Land. (2) Bergen-op-Zoom, Hol-	406
land. An Establishment neighboring and similar to the last.		
LXXXIV.—(1)	Holland. A Netherlands steam Oyster-dredge. (2) Ostend, Belgium. The main Canal which	
supplies water to adjacent Oyster Reservoirs, as seen at low tide.		
LXXXV.—(1)	Ostend, Belgium. An Oyster Reservoir (Claire). (2) Ostend. Another view of the Establish-	406
ment of Fig. 1, taken from the corner of the masonry inclosure.		
LXXXVI.—(1)	Blankenberghe, Belgium. The Oyster Pits of Dr. Anseline van Nieuwe. (2) Nieuport, Bel-	
gium. A Cultural Pond of the Establishment of Messrs. Meinesz & Co.		
LXXXVII.—(1)	Whitstable, England. View of the Kentish Flats at low tide, from a window of the Whitstable	406
Company's Warehouse. (2) Whitstable. A typical Dredging Boat at work.		
LXXXVIII.—(1)	Whitstable, England. Warehouse of the Whitstable Oyster Company, overlooking the Kentish	
Flats. (2) Whitstable. The Storage Pits of the Whitstable Company; sorting the oysters.		

FIGURES IN TEXT:

1. Tarentine Park
2. Arrangement of ropes in Tarentine Park
3. Plan of Reservoir at Husum

380
381
378